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Practitioner's Docket No. MPI97-068P1CN1DV1M

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Number: 6,841,372 B2  
Date of Issue: January 11, 2005  
Name of Patentee: Daniel R. Storm. *et al.*  
Title of Invention: CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL CYCLASE

**Mail Stop Issue Fee**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**Certificate**  
**FEB 08 2005**  
**of Correction**

**TRANSMITTAL**

1. Transmitted herewith for this application is/are:
  - a. This Transmittal (2 pages);
  - b. Request for Certificate of Correction of Patent for PTO Mistake (2 pages);
  - c. Certificate of Correction (1 page - in duplicate);
  - d. Copies of Recordal of Assignments and Merger Documents (17 pages);
  - e. Copy of Issue Notification received January 3, 2005 (1 page); and
  - f. Return Postcard.

**STATUS**

2. Applicant is other than a small entity.

---

**CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\***

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

- ☒ deposited with the United States Postal Service in an envelope addressed to the Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
**37 C.F.R. SECTION 1.8(a)**

**37 C.F.R. SECTION 1.10\***

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No.

**TRANSMISSION**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

  
Signature

Beverly Sotiropoulos

(type or print name of person certifying)

Date: January 31, 2005

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Page 1 of 2)

14 FEB 2005

Practitioner's Docket No. MPI97-068P1CN1DV1M

**FEE DEFICIENCY**

3. If any additional extension and/or fee is required, charge Account No. 501668.  
If any additional fee for claims is required, charge Account No. 501668.
4. Correspondence Address  
Direct all future correspondence to:

Customer Number 30405

OR

Intellectual Property Department  
MILLENNIUM PHARMACEUTICALS, INC.  
40 Landsdowne Street  
Cambridge, MA 02139

January 31, 2005

MILLENNIUM PHARMACEUTICALS, INC.

By Tracy M. Sibussat

Tracy M. Sibussat

Attorney/Agent for Applicant

Reg. No. 50,609

40 Landsdowne Street

Cambridge, MA 02139

Telephone: (617) 374-7679

Facsimile - (617) 551-8820



Applicant's Docket No. MPI97-068P1CN1DV1M

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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Date of Issue: January 11, 2005  
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Title of Invention: CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL CYCLASE

**Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTENTION: Decision and Certificate of Correction  
Branch of the Patent Issue Division**

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT  
FOR PTO MISTAKE (37 C.F.R. SECTION 1.322(a))**

1. Attached hereto, in duplicate, is PTO/SB/44 (also Form PTO—1050), with at least one copy being suitable for printing.
2. The exact pages where the errors appear are:

Cover Page

---

**CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\***

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

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**37 C.F.R. SECTION 1.10\***

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee"  
Mailing Label No.

**TRANSMISSION**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

  
**Signature**

Beverly Sotiropoulos

(type or print name of person certifying)

Date: January 31, 2005

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14 FEB 2005

(Page 1 of 2)

**Practitioner's Docket No. MPI97-068P1CN1DV1M**

3. Please send the Certificate to:

Name: Customer No.: 30405  
Millennium Pharmaceuticals, Inc.  
Attn: Docketing Department  
40 Landsdowne Street  
Cambridge, MA 02139

4. Assignees: Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts (US) and  
University of Washington, Seattle, WA (US)

[ x ] Assignments recorded on

July 24, 2000 Reel 010999, Frame 0728  
Copy of Assignment of the invention from Daniel R. Storm and Beth Hacker to the  
University of Washington

July 24, 2000 Reel 010999, Frame 0711  
Copy of Assignment of the invention from James E. Tomlinson to  
COR Therapeutics, Inc.

May 24, 2002 Reel 012928, Frame 0446  
Copy of Assignment of the invention from COR Therapeutics, Inc. to  
Millennium Pharmaceuticals, Inc. and a copy of the Merger documents  
in relation to the merger between Millennium Pharmaceuticals, Inc.  
and COR Therapeutics, Inc.

[ x ] Recordal of assignments attached

January 31, 2005

MILLENNIUM PHARMACEUTICALS, INC.

By Tracy M. Sioussat  
Tracy M. Sioussat  
Attorney/Agent for Applicant  
Reg. No. 50,609  
40 Landsdowne Street  
Cambridge, MA 02139  
Telephone: (617) 374-7679  
Facsimile - (617) 551-8820

14 FEB 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 6, 841, 372 B2

DATED : January 11, 2005

INVENTOR(S) : Daniel R. Storm. *et al.*.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**COVER PAGE:**

Please make the following corrections to the Assignee listed:

**Assignees:** Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts (US);  
**University of Washington, Seattle, WA (US)**

PATENT NO. 6, 841, 372 B2

MAILING ADDRESS OF SENDER:

No. of additional copies 0

Name: Customer Number 30405 Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.			
Address	40 Landsdowne Street	Zip Code	02139
City	Cambridge	Fax	617-551-8820
State	MA	Telephone	617-374-7679
Name (Print/Type)	Tracy M. Sioussat	Registration No. (Attorney/Agent)	50,609
Signature	<i>Tracy M. Sioussat</i>	Date	January 31, 2005

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FEB 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 6, 841, 372 B2

DATED : January 11, 2005

INVENTOR(S) : Daniel R. Storm. *et al.*.

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#### COVER PAGE:

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**Assignees:** Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts (US);  
**University of Washington, Seattle, WA (US)**

PATENT NO. 6, 841, 372 B2

MAILING ADDRESS OF SENDER:

No. of additional copies 0

Name: Customer Number 30405 Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.			
Address	40 Landsdowne Street	Zip Code	02139
City	Cambridge	Fax	617-551-8820
State	MA	Telephone	617-374-7679
Name (Print/Type)	Tracy M. Sioussat	Registration No. (Attorney/Agent)	50,609
Signature	<i>Tracy M. Sioussat</i>	Date	January 31, 2005

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

# COPY

34 FEB 2005



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

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mst  
RK

OCTOBER 03, 2000

PTAS

MORGAN, LEWIS & BOCKIUS LLP  
REID G. ADLER  
1800 M STREET, N.W.  
WASHINGTON, D.C. 20036



\*101437272A\*

OCT 03 2000

101437272A

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/24/2000

REEL/FRAME: 010999/0728  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

STORM, DANIEL R.

DOC DATE: 06/29/2000

ASSIGNOR:

HACKER, BETH

DOC DATE: 06/12/2000

ASSIGNEE:

WASHINGTON, UNIVERSITY OF  
1107 N.E. 45TH STREET  
SEATTLE, WASHINGTON 98105

SERIAL NUMBER: 09473717  
PATENT NUMBER:

FILING DATE: 12/29/1999  
ISSUE DATE:

DIANE RUSSELE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

44481-5029-01  
**DOCKETED**  
By SDW Date 10-10-00

08-19-2000

RECORDATI  
P.



101437272

by Docket No.: 044481-5029-01

To the Commissioner for Patents:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

- 1) Daniel R. STORM
- 2) Beth HACKER

Additional name(s) of conveying party(ies) attached?  
☐ Yes ☒ No



2. Name and address of receiving party(ies):

Name: University of Washington

Internal Address:

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other \_\_\_\_\_

Street Address: 1107 N.E. 45th Street,

City: Seattle

State: Washington

Zip: 98105

Additional name(s) & address(es) attached?  
☐ Yes ☒ No

Execution Date: 1) June 29, 2000 and 2) June 12, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s): 09/473,717

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Reid G. Adler

Internal Address: Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.

City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan

Name of Person Signing

Michael S. Tuscan  
Signature

July 24, 2000

Date

08/18/2000 DNGUYEN 00000054 500310 09473717

Total number of pages including cover sheet, attachments and documents: 3

01 FC:581

40.00 CH

FEB 2005



ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL CYCLASE

for which I/WE executed an application for United States Letters Patent concurrently herewith; or on \_\_\_\_\_; or filed an application for United States Letters Patent on December 29, 1999, (Serial No. 09/473,717); and

WHEREAS, University of Washington, a corporation of Washington, whose post office address is 1107 N.E. 45th Street, Seattle, WA 98105 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

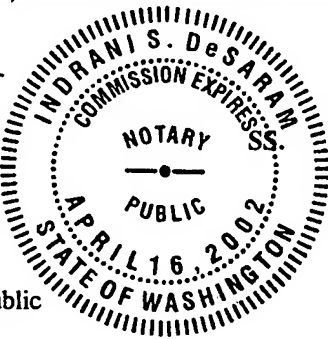
NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, the parent PCT application No. PCT/US98/13541, all national stage applications claiming priority to PCT/US98/13541 and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set my/our hand(s).

County of <u>King</u>	<u>Daniel R. Storm</u> Full Name of Sole or First Assignor
State of <u>Washington</u>	<u>8025 36th Avenue, NE, Seattle, WA 98125</u> Address
Subscribed and sworn to before me this <u>21</u> day of <u>JUNE</u> , 2000.	<u>Daniel R. Storm</u> First Assignor's Signature
<u>[Signature]</u> Notary Public MY COMMISSION EXPIRES <u>2/15/2002</u>	<u>6/29/00</u> Date
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<p>County of <u>King</u></p> <p>State of <u>Washington</u></p> <p>Subscribed and sworn to before me this <u>12</u> day of <u>June</u>, 2000.</p> <p><u>Indrani S. Desaram</u> Notary Public</p>		<p><u>Beth Hacker</u> Full Name of Second Assignor</p> <p><u>10022 36th Ave NE Seattle, WA 98125</u> <u>7239 Sand Point Way, NE, #407, Seattle, WA 98115</u></p> <p>Address</p> <p><u>Beth Hacker</u> Second Assignor's Signature</p> <p><u>6/12/00</u> Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p>SS.</p>	<p>Full Name of Third Assignor</p> <p>Address</p> <p>Third Assignor's Signature</p> <p>Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p>SS.</p>	<p>Full Name of Fourth Assignor</p> <p>Address</p> <p>Fourth Assignor's Signature</p> <p>Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p>SS.</p>	<p>Full Name of Fifth Assignor</p> <p>Address</p> <p>Fifth Assignor's Signature</p> <p>Date</p>
<p>Names of additional inventors attached    <input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No</p>		



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

RGA  
mst  
RK

OCTOBER 03, 2000

PTAS

MORGAN, LEWIS & BOCKIUS LLP  
REID G. ADLER  
1800 M STREET, N.W.  
WASHINGTON, DC 20036



\*101437271A\*

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RECORDATION DATE: 07/24/2000

REEL/FRAME: 010999/0711  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TOMLINSON, JAMES E.

DOC DATE: 05/30/2000

ASSIGNEE:

COR THERAPEUTICS, INC.  
256 E. GRAND AVE.  
SOUTH SAN FRANCISCO, CALIFORNIA

94080

SERIAL NUMBER: 09473717  
PATENT NUMBER:

FILING DATE: 12/29/1999  
ISSUE DATE:

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

44481-5029-01  
**DOCKETED**  
By SDW Date 10-10-00

08-19-2000

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3ET

101437271

7.24.00

Attorney Docket No.: 044481-5029-01

To the Commissioner for Patents:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

1. James E. Tomlinson

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: COR Therapeutics, Inc.

Internal Address:

Street Address: 256 E. Grand Ave.,

City: South San Francisco

State: California Zip: 94080

Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: May 30, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s): 09/473,717

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Reid G. Adams

Internal Address: Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.

City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan

Name of Person Signing

*Michael S. Tuscan*

Signature

July 24, 2000

Date

8/18/2000 DNGUYEN 00000053 500310 09473717

Total number of pages including cover sheet, attachments and documents: 2

14 FEB 2005

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for which I/WE executed an application for United States Letters Patent concurrently herewith; or on \_\_\_\_\_; or filed an application for United States Letters Patent on December 29, 1999, (Serial No. 09/473,717); and


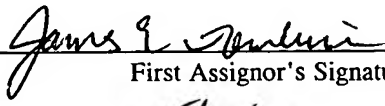

WHEREAS, COR Therapeutics, Inc., a corporation of California, whose post office address is 256 E. Grand Ave., South San Francisco, California 94080 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, the parent PCT application No. PCT/US98/13541, all national stage applications claiming priority to PCT/US98/13541 and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set my/our hand(s).

County of <u>San Mateo</u>		CATHERINE C. VILLEGAS Commission #1153067 Notary Public - California San Mateo County My Comm. Expires Aug 24, 2007	James E. Tomlinson Full Name of Sole or First Assignor
State of <u>California</u>		1540 Balboa St., Burlingame, CA 94010 Address	
Subscribed and sworn to before me this <u>1st</u> day of <u>June</u> , 2000.		 First Assignor's Signature	
 Notary Public		<u>5/30/06</u> Date	
Names of additional inventors attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			



MST  
EWS  
MST  
RJS  
RK

JULY 30, 2002

PTAS

MORGAN, LEWIS & BOCKIUS LLP  
MICHAEL S. TUSCAN  
1111 PENNSYLVANIA AVE., N.W.  
WASHINGTON, D.C. 20004

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov



\*102108467A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/24/2002

REEL/FRAME: 012928/0446  
NUMBER OF PAGES: 6

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

COR THERAPEUTICS, INC.

DOC DATE: 02/12/2002

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.  
75 SIDNEY STREET  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 07578646  
PATENT NUMBER: 5278144-44481-5002

FILING DATE: 09/04/1990  
ISSUE DATE: 01/11/1994 MST/MST/RJS

SERIAL NUMBER: 08249777  
PATENT NUMBER: 5597799-44481-5002-02

FILING DATE: 05/26/1994  
ISSUE DATE: 01/28/1997 MST/MST/RJS

SERIAL NUMBER: 08467339  
PATENT NUMBER: 5635481-44481-5002-03

FILING DATE: 06/06/1995  
ISSUE DATE: 06/03/1997 MST/MST/RJS

SERIAL NUMBER: 08470807  
PATENT NUMBER: 5650314-44481-5002-04

FILING DATE: 06/06/1995  
ISSUE DATE: 07/22/1997 MST/MST/RJS

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AUG 05 2002

MORGAN, LEWIS & BOCKIUS LLP

DOCKETED

By SOW Date 8-5-02

SERIAL NUMBER: 08268003	44481-5002-05	FILING DATE: 06/29/1994	MST/MST/RJS
PATENT NUMBER: 5583107		ISSUE DATE: 12/10/1996	
SERIAL NUMBER: 08487037	44481-5002-10	FILING DATE: 06/07/1995	MST/MST/RJS
PATENT NUMBER: 5795863		ISSUE DATE: 08/18/1998	
SERIAL NUMBER: 08469301	44481-5002-11	FILING DATE: 06/06/1995	MST/MST/RJS
PATENT NUMBER: 5837679		ISSUE DATE: 11/17/1998	
SERIAL NUMBER: 09016400	44481-5002-12	FILING DATE: 01/30/1998	MST/MST/RJS
PATENT NUMBER: 5990079		ISSUE DATE: 11/23/1999	
SERIAL NUMBER: 09016403	44481-5002-13	FILING DATE: 01/30/1998	MST/MST/RJS
PATENT NUMBER: 5968897		ISSUE DATE: 10/19/1999	
SERIAL NUMBER: 07614443	44481-5003	FILING DATE: 11/16/1990	MST/ECW/RJS
PATENT NUMBER: 5342830		ISSUE DATE: 08/30/1994	
SERIAL NUMBER: 08294859	44481-5003-01	FILING DATE: 08/29/1994	MST/ECW/RJS
PATENT NUMBER: 5679542		ISSUE DATE: 10/21/1997	
SERIAL NUMBER: 08481676	44481-5003-02	FILING DATE: 06/07/1995	MST/ECW/RJS
PATENT NUMBER: 5744584		ISSUE DATE: 04/28/1998	
SERIAL NUMBER: 08302226	44481-5004-01	FILING DATE: 09/06/1994	MST/MST/RJS
PATENT NUMBER: 5798332		ISSUE DATE: 08/25/1998	
SERIAL NUMBER: 08307609	44481-5004-03	FILING DATE: 12/02/1994	MST/MST/RJS
PATENT NUMBER: 6117836		ISSUE DATE: 09/12/2000	
SERIAL NUMBER: 08097938	44481-5006	FILING DATE: 07/26/1993	MST/MST/RK
PATENT NUMBER: 5629174		ISSUE DATE: 05/13/1997	
SERIAL NUMBER: 08474410	44481-5006-03	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 6043212		ISSUE DATE: 03/28/2000	
SERIAL NUMBER: 08476976	44481-5006-04	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 5874400		ISSUE DATE: 02/23/1999	
SERIAL NUMBER: 08472840	44481-5006-05	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 5763575		ISSUE DATE: 06/09/1998	
SERIAL NUMBER: 08476000	44481-5006-07	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 5716789		ISSUE DATE: 02/10/1998	
SERIAL NUMBER: 08486673	44481-5006-08	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 6297026		ISSUE DATE: 10/02/2001	
SERIAL NUMBER: 08330978	44481-5007-01	FILING DATE: 10/28/1994	MST/ECW/RJS
PATENT NUMBER: 5589571		ISSUE DATE: 12/31/1996	
SERIAL NUMBER: 08474042	44481-5007-01	FILING DATE: 06/07/1995	MST/ECW/RJS
PATENT NUMBER: 5589572		ISSUE DATE: 12/31/1996	

SERIAL NUMBER: 08484558	44481-5007-02	FILING DATE: 06/07/1995	
PATENT NUMBER: 5602233		ISSUE DATE: 02/11/1997	MST/ECW/RJS
SERIAL NUMBER: 08774592	44481-5007-03	FILING DATE: 12/30/1996	
PATENT NUMBER: 5770699		ISSUE DATE: 06/23/1998	MST/ECW/RJS
SERIAL NUMBER: 08734607	44481-5008-	FILING DATE: 10/18/1996	
PATENT NUMBER: 6210913		ISSUE DATE: 04/03/2001	MST/MST/RJS
SERIAL NUMBER: 08559524	44481-5010	FILING DATE: 11/15/1995	
PATENT NUMBER: 5871963		ISSUE DATE: 02/16/1999	MST/MST/RK
SERIAL NUMBER: 08749707	44481-5010-01	FILING DATE: 11/15/1996	
PATENT NUMBER: 6063582		ISSUE DATE: 05/16/2000	MST/MST/RK
SERIAL NUMBER: 08258283	44481-5010-02	FILING DATE: 06/10/1994	
PATENT NUMBER: 5817310		ISSUE DATE: 10/06/1998	MST/MST/RJS
SERIAL NUMBER: 08592500	44481-5018-01	FILING DATE: 01/26/1996	
PATENT NUMBER: 6005089		ISSUE DATE: 12/21/1999	MST/MST/RJS
SERIAL NUMBER: 08195006	44481-5018-02	FILING DATE: 02/10/1994	
PATENT NUMBER: 6083688		ISSUE DATE: 07/04/2000	MST/ECW/RJS
SERIAL NUMBER: 08753038	44481-5025	FILING DATE: 11/18/1996	
PATENT NUMBER: 6194557		ISSUE DATE: 02/27/2001	MST/MST/RJS
SERIAL NUMBER: 08972719	44481-5025-01	FILING DATE: 11/18/1997	
PATENT NUMBER: 6060588		ISSUE DATE: 05/09/2000	MST/MST/RJS
SERIAL NUMBER: 09590175	44481-5025-02	FILING DATE: 06/09/2000	
PATENT NUMBER: 6322990		ISSUE DATE: 11/27/2001	MST/MST/RJS
SERIAL NUMBER: 09473717	44481-5029-01	FILING DATE: 12/29/1999	
PATENT NUMBER: 6372475		ISSUE DATE: 04/16/2002	MST/MST/RK
SERIAL NUMBER: 08948672	44481-5012-01	FILING DATE: 10/10/1997	
PATENT NUMBER: 6262047		ISSUE DATE: 07/17/2001	JAL/ECW/OKH
SERIAL NUMBER: 08948664	44481-5014-02	FILING DATE: 10/10/1997	
PATENT NUMBER: 6369080		ISSUE DATE: 04/09/2002	JAL/ECW/OKH Transferred TTC
SERIAL NUMBER: 08948663	44481-5015-02	FILING DATE: 10/10/1997	
PATENT NUMBER: 6063794		ISSUE DATE: 05/16/2000	Transferred TTC
SERIAL NUMBER: 08948482	44481-5016-02	FILING DATE: 10/10/1997	
PATENT NUMBER: 6194435		ISSUE DATE: 02/27/2001	Transferred TTC
SERIAL NUMBER: 09058564	44481-5021	FILING DATE: 04/13/1998	
PATENT NUMBER: 6211183		ISSUE DATE: 04/03/2001	Transferred TTC
SERIAL NUMBER: 09058821	44481-5022	FILING DATE: 04/13/1998	
PATENT NUMBER: 6369063		ISSUE DATE: 04/09/2002	Transferred TTC



SERIAL NUMBER: 09058566  
PATENT NUMBER: 6133256 - 44481-5023

FILING DATE: 04/13/1998  
ISSUE DATE: 10/17/2000  
Transferred  
TTC

SERIAL NUMBER: 09058565  
PATENT NUMBER: 6204268 - 44481-5024

FILING DATE: 04/13/1998  
ISSUE DATE: 03/20/2001  
Transferred  
TTC

SERIAL NUMBER: 09132257  
PATENT NUMBER: 6228854 - 44481-5034

FILING DATE: 08/11/1998  
ISSUE DATE: 05/08/2001  
Transferred  
TTC

SERIAL NUMBER: 09132258  
PATENT NUMBER: 6218382 - 44481-5035

FILING DATE: 08/11/1998  
ISSUE DATE: 04/17/2001  
Transferred  
TTC

SERIAL NUMBER: 09132228  
PATENT NUMBER: 6333321 - 44481-5036

FILING DATE: 08/11/1998  
ISSUE DATE: 12/25/2001  
Transferred  
TTC

SERIAL NUMBER: 09794225  
PATENT NUMBER: 6376515 - 44481-5061

FILING DATE: 02/28/2001  
ISSUE DATE: 04/23/2002  
Transferred  
TTC

STEVEN POST, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

05-31-2002



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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

COVER SHEET  
Y

Attorney Docket No.: 44481-0021-US

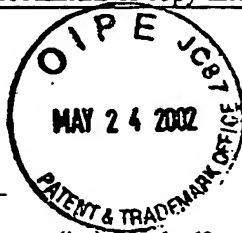
To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

COR Therapeutics, Inc.

5-24-02



Additional name(s) of conveying party(ies) attached?

Yes ☐ No ☒

2. Name and address of receiving party(ies):

Name: Millennium Pharmaceuticals, Inc.

Street Address: 75 Sidney Street

City: Cambridge State: MA

Country: US Zip: 02139

3. Nature of conveyance:

☐ Assignment ☒ Merger  
☐ Security Agreement ☐ Change of Name  
Other \_\_\_\_\_

Additional name(s) & address(es) attached?

Yes ☐ No ☒

Execution Date(s): February 12, 2002

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s):

B. Patent No.(s): 5,278,144

Additional numbers attached: ☒ Yes ☐ No See attached Schedule A.

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael S. Tuscan, Ph.D.  
Internal Address: Customer No. 009629  
Morgan, Lewis & Bockius LLP

Street Address: 1111 Pennsylvania Ave., NW  
City: Washington State: D.C. Zip: 20004

6. Total number of applications and patents involved: 46

7. Total fee (37 C.F.R §3.41): \$1840.00

☐ Enclosed  
☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310  
Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan, Ph.D., Reg. No. 43,210

Name of Person Signing

05/30/2002 LNUELLER 00000227 500310 5278144

01 FC:581 1840.00 CH

Michael S. Tuscan

Signature

5-24-02

Date

Total number of pages including cover sheet, attachments and documents: 7

14 FEB 2005

## Schedule A, U.S. patents

Patent No.	Issue Date	Title	Ref. No.
5,278,144	1994-01-11	Antithrombosis agents	44481-5002
5,597,799	1997-01-28	Recombinant agents affecting thrombosis	44481-5002-02
5,635,481	1997-06-03	Recombinant agents affecting thrombosis	44481-5002-03
5,650,314	1997-07-22	Recombinant agents affecting thrombosis	44481-5002-04
5,583,107	1996-12-10	Agents affecting thrombosis and hemostasis	44481-5002-05
5,795,863	1998-08-18	Recombinant agents affecting thrombosis	44481-5002-10
5,837,679	1998-11-17	Agents affecting thrombosis and hemostasis	44481-5002-11
5,990,079	1999-11-23	Agents affecting thrombosis and hemostasis	44481-5002-12
5,968,897	1999-10-19	Agents affecting thrombosis and hemostasis	44481-5002-13
5,342,830	1994-08-30	Antithrombosis agents	44481-5003
5,679,542	1997-10-21	Antithrombosis agents	44481-5003-01
5,744,584	1998-04-28	Antithrombosis agents	44481-5003-02
5,798,332	1998-08-25	Glycosylation-mediated inhibition of factor X	44481-5004-01
6,117,836	2000-09-12	Glycosylation-mediated inhibition of factor X	44481-5004-03
5,629,174	1997-05-13	Recombinant C140 receptor	44481-5006
6,043,212	2000-03-28	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-03
5,874,400	1999-02-23	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-04
5,763,575	1998-06-09	Agonist and antagonist peptides of the C140 receptor	44481-5006-05
5,716,789	1998-02-10	Method to determine ligands, agonist and antagonist of C140 receptor	44481-5006-07
6,297,026	2001-10-02	Nucleic acids encoding the C140 receptor	44481-5006-08
5,589,571	1996-12-31	Process for production of inhibited forms of activated blood factors	44481-5007
5,589,572	1996-12-31	Process for production of inhibited forms of activated blood factors	44481-5007-01
5,602,233	1997-02-11	Process for production of inhibited forms of activated blood factors	44481-5007-02
5,770,699	1998-06-23	Process for production of inhibited forms of activated blood factors	44481-5007-03
6,210,913	2001-04-03	Modulation of integrin-mediated signal transduction	44481-5008-01
5,871,963	1999-02-16	P <sub>2u2</sub> purinergic receptor and nucleic acid encoding the receptor	44481-5010
6,063,582	2000-05-16	Methods of screening for compounds that interact with human P <sub>2u2</sub> purinergic receptor	44481-5010-01

Schedule A, U.S. patents

Patent No.	Issue Date	Title	Ref. No.
5,817,310	1998-10-06	Inhibitory immunoglobulin polypeptides to human PDGF beta receptor	44481-5017-02
6,005,089	1999-12-21	Platelet glycoprotein V gene and uses	44481-5018-01
6,083,688	2000-07-04	Platelet glycoprotein V gene and uses	44481-5018-02
6,194,557	2001-02-27	Nucleic acid molecules encoding Bap-1 proteins	44481-5025
6,060,588	2000-05-09	Bap-1 proteins	44481-5025-01
6,322,990	2001-11-27	Methods of identifying agents that block the interaction of a BAP protein with a signaling partner	44481-5025-02
6,372,475	2002-04-16	Cloning and characterization of a human adenylyl cyclase	44481-5029-01
6,262,047	2001-07-17	Selective factor Xa inhibitors	44481-5012-02
6,369,080	2002-04-09	Selective factor Xa inhibitors	44481-5014-02
6,063,794	2000-05-16	Selective factor Xa inhibitors	44481-5015-01
6,194,435	2001-02-27	Lactams as selective factor Xa inhibitors	44481-5016-02
6,211,183	2001-04-03	Selective factor Xa inhibitors	44481-5021
6,369,063	2002-04-09	Selective factor Xa inhibitors	44481-5022
6,133,256	2000-10-17	Selective factor Xa inhibitors	44481-5023
6,204,268	2001-03-20	Selective factor Xa inhibitors	44481-5024
6,228,854	2001-05-08	Selective factor Xa inhibitors	44481-5034
6,218,382	2001-04-17	Selective factor Xa inhibitors	44481-5035
6,333,321	2001-12-25	Selective factor Xa inhibitors	44481-5036
6,376,515	2002-04-23	Benzamides and related inhibitors of factor Xa	44481-5061-01

# Delaware

PAGE 1

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"COR THERAPEUTICS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "MILLENNIUM PHARMACEUTICALS, INC." UNDER THE NAME OF "MILLENNIUM PHARMACEUTICALS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWELFTH DAY OF FEBRUARY, A.D. 2002, AT 6 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

2322355 8100M

AUTHENTICATION: 1610075

**CERTIFICATE OF OWNERSHIP AND MERGER**

**MERGING**

**COR THERAPEUTICS, INC.**  
(a Delaware corporation)

**INTO**

**MILLENNIUM PHARMACEUTICALS, INC.**  
(a Delaware corporation)

Millennium Pharmaceuticals, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify:

**FIRST**: That the Corporation was incorporated on the 13th day of January, 1993, pursuant to the General Corporation Law of the State of Delaware.

**SECOND**: That the Corporation owns all of the outstanding shares of each class of the stock of COR Therapeutics, Inc., a corporation incorporated on the 4th day of February, 1988 pursuant to the General Corporation Law of the State of Delaware.

**THIRD**: That the Board of Directors of the Corporation, by written action in lieu of a meeting dated the 4th day of February, 2002, duly adopted the following resolutions:

RESOLVED: That, pursuant to Section 253 of the Delaware General Corporation Law, the Corporation is hereby authorized to merge COR Therapeutics, Inc., a Delaware corporation which is a wholly owned subsidiary of the Corporation, into the Corporation;

RESOLVED: That the President and Secretary of the Corporation be, and each of them hereby is, authorized to execute a Certificate of Ownership and Merger with respect to the merger of COR Therapeutics, Inc. into the Corporation, cause the same to be filed with the Secretary of State of the State of Delaware and take all such other actions and to execute all such other instruments and agreements as the officer or officers so acting may deem appropriate to effect such merger;

RESOLVED: That the merger of COR Therapeutics, Inc. into the Corporation shall be effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, the Corporation has caused this Certificate to be signed by its authorized officer this 12th day of February, 2002:

MILLENNIUM  
PHARMACEUTICALS, INC.

By: /s/ Mark J. Levin  
Title: President

14 FEB 2005



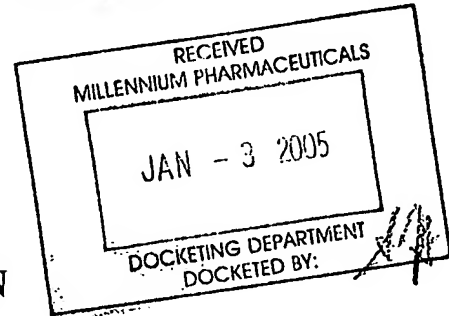
# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
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Alexandria, Virginia 22313-1450  
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/071,223	01/11/2005	6841372	044481-5029-02	1096

30405 7590 12/23/2004

MILLENNIUM PHARMACEUTICALS, INC.  
40 Landsdowne Street  
CAMBRIDGE, MA 02139



## ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 249 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

APPLICANT(s) (up to 18 names are included below, see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Daniel R. Storm, Seattle, WA;  
Beth Hacker, Seattle, WA;  
James E. Tomlinson, Burlingame, CA;

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4 FEB 2005